



# MATERIAL SAFETY DATA SHEET

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Revised edition no : 01

## P-521 (SP60) PENETRATING & LUBRICATING

Effective Date: 30-6-2014

### 1 Identification of the Product and the company

Chemical Name : (SP60) Penetrating & Lubricating Product  
Type of product chemical family : N/A  
Use : Penetrating & Lubricating Spray  
Producer : TLC-KOYA CHEMICALS MANUFACTURING SDN BHD  
No.22 & 23, Jalan Maju 1,  
Cemerlang Industrial Estate,  
81800 Ulu Tiram, Johor, Malaysia.  
Tel: 607-8675798 Fax: 607-8675799  
Website: www.koyachemicals.com Email: admin@koyachemicals.com  
Emergency phone nr : See producer

### 2 Hazard Identification

Inhalation : Irritation to mucous membrane and nasal Passages.  
Skin Contact : May cause skin irritation. Exposure to Rapidly expanding gas or liquid may cause frostbite (cold burn)  
Ingestion : Irritation of GI tract.  
Eye Contact : Exposure to rapidly expanding gas or liquid may cause fristburn (cold burn) and damages to eyes.

### 3 Composition / Information on Ingredients

Hazardous ingredients : Perchloroethylene 31%  
TLV : 100ppm  
Petroleum Grease 21%  
TLV : 100ppm  
LPG 30%  
TLV : 1000ppm

### 4 First Aid Measures

Inhalation : Move to fresh air. Seek medical attention.  
Skin Contact : Flush with copious amount of water for 15 minutes.  
Ingestion : Do not induce vomiting. Contact physician Immediately.  
Eye Contact : Wash with copious quantities of water for 15 minutes. Seek medical attention where necessary.

### 5 Fire-Fighting Measures

Flash Point (Material Used) : 192c (coc) ASTM D92  
Extinguishing Media : Carbon dioxide, foam, dry chemical powder and water fog.  
Special Fire Fighting Procedures : Use water to keep container cool, fire exposed.  
Unusual Fire and Explosion Hazards : Flammable, Vapor accumulation could flash and / or explode if ignited.

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### 6 Accidental Release measures

- Personal protection : - Wear PVC-gloves and goggles to contain spillage.  
Avoid repeated skin contact.
- Environment precautions : - Prevent the product contaminating soil and groundwater. Prevent the product entering sewers and waterways.  
Cfr.Section 12.
- Cleaning / recovery : - Large spillages : contain and pump into containers  
- Small spillages : absorb on sand, earth...and collect into containers for disposal. Disposal should always comply with local, national or EEC regulations. Cfr.Section 13.

### 7 Handling and Storage

- Handling : Good industrial and personal hygiene practice should be followed. No eating and drinking in the workplace. Ensure adequate ventilation.
- Storage : Storage temperature : between +5 and +40°C.  
Protect from frost and direct sunlight.  
Drums and bottles : material is plastic or steel.  
Bulk tanks : stainless steel, plastic coated materials... Clean bulk tanks periodically to prevent accumulation of bacteria.
- Specific use : Use the best available methods of handling our Products whereby the employees enjoy maximum safety and whereby the environment is minimally affected.
- Precautionary labeling : Container is pressurized.
- Other handling and storage requirement : Avoid heat & open flames. Do not puncture or throw into fire. Do not expose to temperature above 65°C (150F). Avoid contact with skin.

### 8 Exposure controls / personal protection

- Exposure limit values : No danger in normal ambient conditions.  
There are no specific limiting values for professional exposure.  
There are no biological limiting values.  
User should determine the conditions for safe use of the product. Cfr. Section 7 "Handling and Storage".
- Exposure controls:
- Occupational exposure controls : Respiratory protection : not applicable  
Hand protection : waterproof PVC-gloves (CE)  
Eye protection : goggles or safety glasses (CE)  
Skin protection : N/A  
Avoid repeated skin contact.
  - Environmental exposure controls : The product must not be discharge directly into drains or waterways without treatment.



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### 9 Physical and chemical properties

Boiling Point (°F)	: N/A
Vapor Pressure (mm hg)	: 700
Vapor Density (Air=1)	: 2.00
PH	: N/A
Appearance and odour	: Clear, Light, yellowish liquid
Solubility in water (wt %)	: Insoluble
Spec Gravity	: 0.8607
Volatile	: >77
Evaporation Rate	: N/A
Melting Point	: N/A

### 10 Stability and reactivity

Stability	: Stable
Condition to avoid	: Keep away from heat source, open flames and other source of ignition.
Incompatibility (materials to avoid)	: Avoid contact with strong oxidants such as liquid chlorine and concentrated oxygen.
Hazardous Decomposition Products	: HCl, CO, CO <sub>2</sub>

### 11 Toxicological information

On product	: Low toxicity is indicated by available data. Under normal industrial conditions, there is no indication that the Product can be considered as a health risk. Skin contact should be avoided to prevent possible long-term or short-term sensitisation.
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### 12 Ecological information

Ecotoxicity	: The Product is soluble with water and as such could cover considerable distances if spilled into waterways. Even a small spillage will whiten the appearance of water. Water for sewage treatment, that has been contaminated. with small quantities of the Product, will not affect the biomass. High concentrations may be harmful to fish and micro organisms.
Mobility	: Not established.
Persistence and degradability	: There is only a slow environmental degradation of the Product.
Bioaccumulative potential	: There is seemingly no tendency for bioaccumulation.
Other adverse effects	: Unknown

### 13 Disposal Considerations

- The following advice only applies to the product as supplied
- Combination with other materials may well indicate another route of disposal. If in doubt, contact local TLC-KOYA CHEMICALS MANUFACTURING SDN BHD or local authorities.
- Empty packaging should be taken for recycling, recovery or disposal through a suitably qualified or licensed contractor.
- Care should in any case be taken to ensure compliance with national and local regulations.
- This product is not suitable for disposal by either landfill or via municipal sewers, drains, and natural streams, rivers or seas, they will effect the relationship between living things, plants and their environment.

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**14 Transport information**

General information : This Product is not regulated for road/rail &amp; sea transport.

**15 Regulatory Information**

Classification and labeling : Classification /symbol - not regulated  
Governing directive : Occupational Safety and Health (Classification, Packaging and Labeling of Hazardous Chemicals) Regulations 1997  
Safety advice : (May contain information in excess of requirements under applicable laws.  
S23 Do not breathe gas/fumes/vapor/spray  
S24 Avoid contact with skin  
S33 Take precautionary measures against static discharges  
S62 If swallowed, do not induce vomiting; seek medical advice immediately and show this container or label.

**16 Other information**

Further information : None  
Print date : 30-6-2014

N/A - Not Applicable      N/D - Not Determined

All recommendations for the use of our products, whether given by us in writing, orally, or to be implied from data or test results obtained by us, are based on the current state of our knowledge at the time such recommendations are made. When additional information is obtained, these recommendations may be updated. They may also be influenced by circumstances outside our control. Notwithstanding such recommendations, the user is responsible to determine that the product as supplied by us, is suitable for the process or purpose he intends to use it. The user of the product is solely for compliance with all laws and regulation applying to the use of the product. Since we cannot control the application, use or processing of the products, we do not accept responsibility therefore. The user shall ensure that the intended use of the products will not infringe in any party's intellectual property rights.

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